

=> d hist

(FILE 'HOME' ENTERED AT 08:34:56 ON 18 APR 2003)

FILE 'REGISTRY' ENTERED AT 08:38:03 ON 18 APR 2003

L1 STRUCTURE UPLOADED

L2 50 S L1

L3 1154 S L1 FULL

FILE 'CAPLUS' ENTERED AT 08:40:06 ON 18 APR 2003

L4 341 S L3

L5 2474278 S NUCLEIC(W)ACID OR DNA OR RNA OR PROTEIN? OR PEPTIDE? OR OLIGO

L6 26 S L4 AND L5

L7 700268 S FLUORESCENT OR RADIOLABEL OR LABEL? OR PROBE?

L8 1 S L6 AND L7

L9 26 S L4 AND L7

L10 23 S L9 AND PY<1999

FILE 'STNGUIDE' ENTERED AT 08:43:35 ON 18 APR 2003

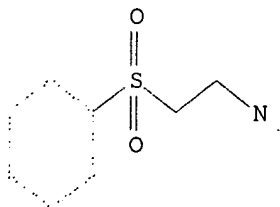
FILE 'REGISTRY' ENTERED AT 09:28:00 ON 18 APR 2003

FILE 'STNGUIDE' ENTERED AT 09:28:01 ON 18 APR 2003

=> d l1 sim

L1 HAS NO ANSWERS

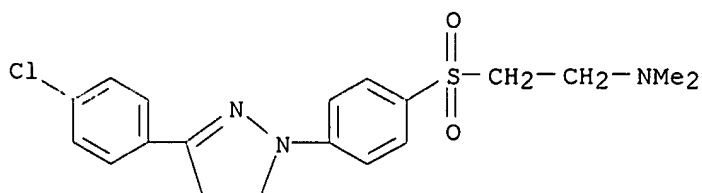
L1 STR



Structure attributes must be viewed using STN Express query preparation.

L10 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:483381 CAPLUS
 DN 127:96534
 TI Pyrazolines and hydroxypyridones in storage-stable brightener compositions
 IN Rothe, Petra
 PA Hoechst A.-G., Germany
 SO Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19546518	A1	19970619	DE 1995-19546518	19951213 <--
PRAI	DE 1995-19546518		19951213		
OS	MARPAT 127:96534				
PI	DE 19546518 A1	19970619			
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19546518	A1	19970619	DE 1995-19546518	19951213 <--
IT	Fluorescent brighteners (pyrazolines and hydroxypyridones in storage-stable brightener compns.)				
IT	29342-13-0	68890-66-4,	Octopirox	85154-08-1	133514-97-3
	192192-72-6	192192-73-7			
	RL: TEM (Technical or engineered material use); USES (Uses) (pyrazolines and hydroxypyridones in storage-stable brightener compns.)				
IT	133514-97-3				
	RL: TEM (Technical or engineered material use); USES (Uses) (pyrazolines and hydroxypyridones in storage-stable brightener compns.)				
RN	133514-97-3	CAPLUS			
CN	Formic acid, compd. with 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethylethanamine (1:1) (9CI) (CA INDEX NAME)				
CM	1				
CRN	10357-99-0				
CMF	C19 H22 Cl N3 O2 S				



CM 2
 CRN 64-18-6
 CMF C H2 O2

O=CH-OH

L10 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:265443 CAPLUS
 DN 126:252377

TI Storage-stable liquid optical brightener formulations and their use with
polyacrylonitrile
IN Martini, Thomas; Rothe, Petra
PA Hoechst A.-G., Germany
SO Ger. Offen., 4 pp.
CODEN: GWXXBX

DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19531265	A1	19970227	DE 1995-19531265	19950825 <--
	EP 765964	A2	19970402	EP 1996-113235	19960819 <--
	EP 765964	A3	19980325		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	JP 09118835	A2	19970506	JP 1996-221442	19960822 <--
	CA 2184032	AA	19970226	CA 1996-2184032	19960823 <--
	CN 1149091	A	19970507	CN 1996-111498	19960823 <--
	US 5904739	A	19990518	US 1996-702884	19960826
PRAI	DE 1995-19531265		19950825		

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19531265 A1	19970227			
	DE 19531265	A1	19970227	DE 1995-19531265	19950825 <--
	EP 765964	A2	19970402	EP 1996-113235	19960819 <--
	EP 765964	A3	19980325		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	JP 09118835	A2	19970506	JP 1996-221442	19960822 <--
	CA 2184032	AA	19970226	CA 1996-2184032	19960823 <--
	CN 1149091	A	19970507	CN 1996-111498	19960823 <--
	US 5904739	A	19990518	US 1996-702884	19960826

AB The formulations comprise a basic **fluorescent** whitener, a polar aprotic solvent, and an acid. Thus, a mixt. (pH 6) of 3-(4-chlorophenyl)-1-[4-[[2-(dimethylamino)ethyl]sulfonyl]phenyl]-4,5-dihydropyrazole 30, formic acid 10, and. . .
ST optical whitener acrylic fabric; acid stabilization whitener formulation; storage stability **fluorescent** whitener

IT **Fluorescent** brighteners

(storage-stable liq. optical brightener formulations)

IT **10357-99-0**, 3-(4-Chlorophenyl)-1-[4-[[2-(dimethylamino)ethyl]sulfonyl]phenyl]-4,5-dihydro-1H-pyrazole 188616-95-7, 2-(6-Methoxy-2-benzoxazolyl)-1,3-dimethyl-5-(methylsulfonyl)benzimidazolium methyl sulfate
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

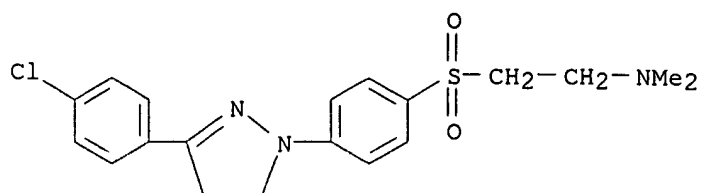
(storage-stable liq. optical brightener formulations)

IT **10357-99-0**, 3-(4-Chlorophenyl)-1-[4-[[2-(dimethylamino)ethyl]sulfonyl]phenyl]-4,5-dihydro-1H-pyrazole
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(storage-stable liq. optical brightener formulations)

RN 10357-99-0 CAPLUS

CN Ethanamine, 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L10 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1991:199667 CAPLUS

DN 114:199667

TI Preparation of benzamide derivatives as agents for the diagnosis and treatment of melanomas

IN Moreau, Marie France; Michelot, Josette; Veyre, Annie; Madelmont, Jean Claude; Godeneche, Denise; Labarre, Pierre; Parry, Daniel; Meyniel, Gaston
PA Institut National de la Sante et de la Recherche Medicale (INSERM), Fr.; Compagnie Oris Industrie S. A.

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9009170	A2	19900823	WO 1990-FR107	19900214 <--
	WO 9009170	A3	19901101		
	W: AU, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
	FR 2642972	A1	19900817	FR 1989-1898	19890214 <--
	FR 2642972	B1	19940805		
	AU 9051913	A1	19900905	AU 1990-51913	19900214 <--
	EP 458886	A1	19911204	EP 1990-903857	19900214 <--
	EP 458886	B1	19931013		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	JP 04506057	T2	19921022	JP 1990-504230	19900214 <--
	JP 2846459	B2	19990113		
	AT 95693	E	19931015	AT 1990-903857	19900214 <--
	US 5190741	A	19930302	US 1991-741481	19910806 <--
PRAI	FR 1989-1898		19890214		
	EP 1990-903857		19900214		
	WO 1990-FR107		19900214		

OS CASREACT 114:199667; MARPAT 114:199667

PI WO 9009170 A2 **19900823**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9009170	A2	19900823	WO 1990-FR107	19900214 <--
	WO 9009170	A3	19901101		
	W: AU, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
	FR 2642972	A1	19900817	FR 1989-1898	19890214 <--
	FR 2642972	B1	19940805		
	AU 9051913	A1	19900905	AU 1990-51913	19900214 <--
	EP 458886	A1	19911204	EP 1990-903857	19900214 <--
	EP 458886	B1	19931013		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	JP 04506057	T2	19921022	JP 1990-504230	19900214 <--
	JP 2846459	B2	19990113		
	AT 95693	E	19931015	AT 1990-903857	19900214 <--
	US 5190741	A	19930302	US 1991-741481	19910806 <--

AB . . . = 0, 1-3) and I salts are prepd. as agents for the diagnosis and

treatment of melanomas. I may be labeled with 123I, 125I, 131I, 75Br, 77Br, 18F, 11C, 13C, or 19F. The reaction of N,N-diethylethylenediamine with 4-iodobenzoyl chloride in THF. . . .

IT 7782-41-4, Fluorine-19, biological studies 10043-66-0, Iodine-131, biological studies 13981-56-1, Fluorine-18, biological studies 14158-31-7, Iodine-125, biological studies 14333-33-6, Carbon-11, biological studies 14762-74-4, Carbon-13, biological studies 14809-47-3, Bromine-75, biological studies 15715-08-9, Iodine-123, biological studies 15765-39-6, Bromine-77, biological studies

RL: BIOL (Biological study)
(labeling by, of benzamide deriv., as agent for diagnosis and treatment of melanomas)

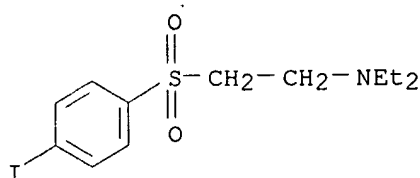
IT 133639-97-1P 133639-98-2P 133639-99-3P 133640-00-3P 133640-01-4P
133640-02-5P 133640-03-6P 133640-04-7P 133640-05-8P 133640-06-9P
133640-07-0P 133640-08-1P 133640-09-2P 133640-10-5P
133640-11-6P 133656-18-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as agent for diagnosis and treatment of melanomas)

IT 133640-11-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as agent for diagnosis and treatment of melanomas)

RN 133640-11-6 CAPLUS

CN Ethanamine, N,N-diethyl-2-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1991:188036 CAPLUS

DN 114:188036

TI Aqueous formulations containing pyrazoline-based optical brighteners with resistance to discoloration during storage

IN Kuehl, Eickhard

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW

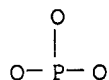
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 396503	A2	19901107	EP 1990-810321	19900424 <--
	EP 396503	A3	19910130		
	EP 396503	B1	19951018		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 129283	E	19951115	AT 1990-810321	19900424 <--
	ES 2078331	T3	19951216	ES 1990-810321	19900424 <--
	US 5219491	A	19930615	US 1990-514628	19900425 <--
	CA 2015714	AA	19901102	CA 1990-2015714	19900430 <--
	BR 9002009	A	19910813	BR 1990-2009	19900430 <--
	JP 02308865	A2	19901221	JP 1990-115356	19900502 <--
	JP 2842929	B2	19990106		
PRAI	CH 1989-1664		19890502		
OS	MARPAT 114:188036				
PI	EP 396503 A2		19901107		

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 396503	A2	19901107	EP 1990-810321	19900424 <--
	EP 396503	A3	19910130		
	EP 396503	B1	19951018		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 129283	E	19951115	AT 1990-810321	19900424 <--
	ES 2078331	T3	19951216	ES 1990-810321	19900424 <--
	US 5219491	A	19930615	US 1990-514628	19900425 <--
	CA 2015714	AA	19901102	CA 1990-2015714	19900430 <--
	BR 9002009	A	19910813	BR 1990-2009	19900430 <--
	JP 02308865	A2	19901221	JP 1990-115356	19900502 <--
	JP 2842929	B2	19990106		
AB	. . . deriv. I (R1 = H, Me; R2, R3 = aryl, substituted aryl; n = 0-1; X- = colorless anion) as fluorescent brightener and 0.1-10 mol % reducing S compd. which inhibits yellowing during storage. An aq. soln. contg. 18% I [R1. . .				
ST	fluorescent brightener pyrazoline soln stability; discoloration resistance pyrazoline brightener; yellowing resistance pyrazoline brightener; reducing stabilizer pyrazoline brightener; dithionite stabilizer pyrazoline brightener;. . .				
IT	Fluorescent brighteners (pyrazoline derivs., aq. solns. of, discoloration inhibitors for)				
IT	60317-15-9	85154-08-1	106359-93-7	133514-96-2	
	133514-97-3				
	RL: USES (Uses) (fluorescent brighteners, aq. solns. of, yellowing inhibitors for)				
IT	106359-93-7 RL: USES (Uses) (fluorescent brighteners, aq. solns. of, yellowing inhibitors for)				
RN	106359-93-7 CAPLUS				
CN	Ethanamine, 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl-, phosphonate (1:1) (9CI) (CA INDEX NAME)				
CM	1				
CRN	13598-36-2				
CMF	H3 O3 P				

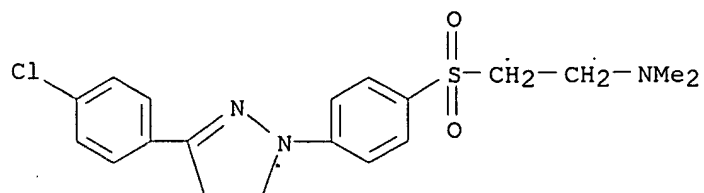


*** FRAGMENT DIAGRAM IS INCOMPLETE ***

CM 2

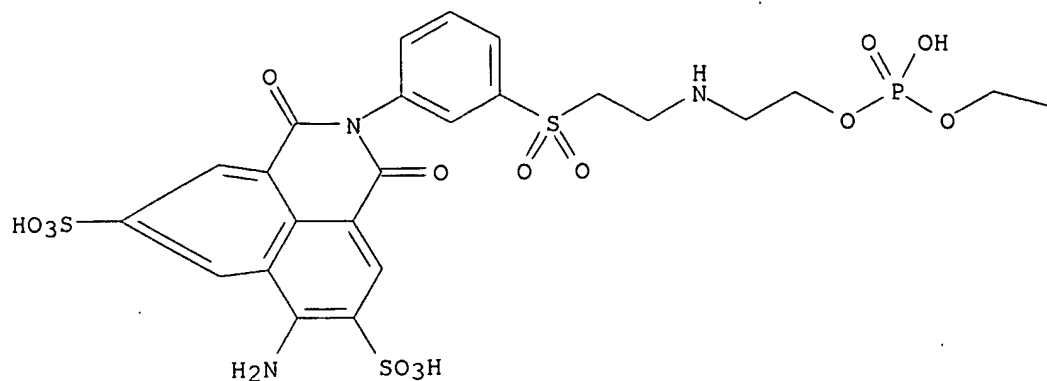
CRN 10357-99-0

CMF C19 H22 Cl N3 O2 S

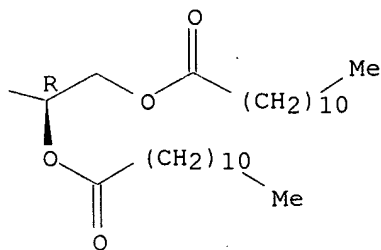


L10 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2003 ACS
 AN 1989:436184 CAPLUS
 DN 111:36184
 TI Synthesis and characterization of **fluorescent** Lucifer yellow-lipid conjugates
 AU Nothnagel, Eugene A.
 CS Dep. Bot. Plant Sci., Univ. California, Riverside, CA, 92521, USA
 SO Biochimica et Biophysica Acta (1989), 980(2), 209-19
 CODEN: BBACAQ; ISSN: 0006-3002
 DT Journal
 LA English
 TI Synthesis and characterization of **fluorescent** Lucifer yellow-lipid conjugates
 SO Biochimica et Biophysica Acta (1989), 980(2), 209-19
 CODEN: BBACAQ; ISSN: 0006-3002
 AB The syntheses of **fluorescent** lipid **probes** composed of Lucifer Yellow dyes linked to either cholesterol or phospholipids are described. The spectral properties of these **probes** are characterized, and the **probes** are evaluated for use with model membranes and with live animal and plant cells. Of the **probes** synthesized, the cholesterol deriv. is the easiest to prep. and appears to be the most useful because it readily **labels** the plasma membrane of live cells and maintains a high ratio of cell surface-to-cytoplasmic fluorescence.
 ST Lucifer Yellow lipid **probe** prepn; cholesterol Lucifer Yellow **probe** prepn; phospholipid Lucifer Yellow **probe** prepn; membrane Lucifer Yellow lipid **fluorescent probe**
 IT Cell membrane
 (Lucifer Yellow-lipid conjugates as **fluorescent probe** for)
 IT Erythrocyte
 Protoplast and Spheroplast
 (membranes of, Lucifer Yellow-cholesterol conjugates as **fluorescent probe** for)
 IT 121395-73-1P 121395-74-2P 121395-75-3P
 121415-65-4P
 RL: PREP (Preparation)
 (prepn. of, as **fluorescent** membrane **probe**)
 IT 121395-73-1P
 RL: PREP (Preparation)
 (prepn. of, as **fluorescent** membrane **probe**)
 RN 121395-73-1 CAPLUS
 CN Dodecanoic acid, 1-[9-[[3-(6-amino-1,3-dioxo-5,8-disulfo-1H-benz[de]isoquinolin-2(3H)-yl)phenyl]sulfonyl]-3-hydroxy-3-oxido-2,4-dioxo-7-aza-3-phosphanon-1-yl]-1,2-ethanediyl ester, dilithium salt, (R)-(9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



●2 Li



L10 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1989:173544 CAPLUS

DN 110:173544

TI The synthesis of a conjugate of progesterone with Lucifer Yellow VS: a potential **probe** for fluoroimmunoassay of steroids

AU Kirk, David N.; Miller, Barry W.

CS Chem. Dep., Queen Mary Coll., London, E1 4NS, UK

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1988), (11), 2979-82

CODEN: JCPRB4; ISSN: 0300-922X

DT Journal

LA English

OS CASREACT 110:173544

TI The synthesis of a conjugate of progesterone with Lucifer Yellow VS: a potential **probe** for fluoroimmunoassay of steroids

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1988), (11), 2979-82

CODEN: JCPRB4; ISSN: 0300-922X

IT Steroids, biological studies

RL: BIOL (Biological study)

(fluorescence immunoassay of, conjugate of progesterone with Lucifer Yellow VS as **probe** for)

IT Immunochemical analysis

(fluorescence immunoassay, of steroids, conjugate of progesterone with

Lucifer Yellow VS as **probe** for)

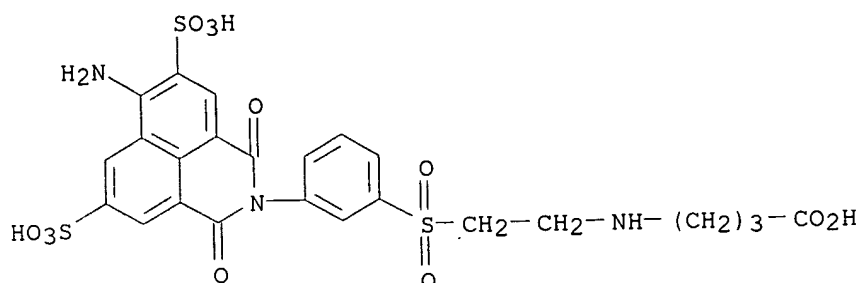
IT 120002-65-5P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and fluorescence of)

IT 119991-94-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as **probe** for fluorescence immunoassay of
 steroids)

IT 120002-65-5P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and fluorescence of)

RN 120002-65-5 CAPLUS

CN Butanoic acid, 4-[[2-[[3-(6-amino-1,3-dioxo-5,8-disulfo-1H-
 benz[de]isoquinolin-2(3H)-yl)phenyl]sulfonyl]ethyl]amino]-, dilithium salt
 (9CI) (CA INDEX NAME)



● 2 Li

L10 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1989:97019 CAPLUS

DN 110:97019

TI Brightening of anionically modified polyester fibers

AU Martini, T.

CS Dtsch. Fachverlag GmbH, Frankfurt/Main, D-6000/1, Fed. Rep. Ger.

SO Chemiefasern/Textilindustrie (1988), 38(9), 827-8, 830
 CODEN: CFTXAJ; ISSN: 0340-3343

DT Journal

LA German

SO Chemiefasern/Textilindustrie (1988), 38(9), 827-8, 830
 CODEN: CFTXAJ; ISSN: 0340-3343

AB Polyester fibers contg. sulfoisophthalate groups were successfully
 brightened by chlorite-resistant **fluorescent** brighteners based
 on benzofuranylbenzimidazole or benzoxazolylbenzimidazole, but could not
 be brightened by pyrazoline-based brighteners, which were destroyed on the
 fiber.. . .

ST cationic **fluorescent** brightener polyester fiber; disperse
fluorescent brightener polyester fiber; acrylic fiber cationic
fluorescent brightener; sulfoisophthalate modified polyester fiber
 brightening; benzofuranylbenzimidazole **fluorescent** brightener
 polyester fiber; benzoxazolylbenzimidazole **fluorescent**
 brightener polyester fiber

IT Acrylic fibers, uses and miscellaneous
 RL: USES (Uses)
 (**fluorescent** brightening of, cationic brighteners for,
 lightfastness of)

IT **Fluorescent** brighteners

(cationic, for anionically modified polyester fibers, lightfastness and whitening in relation to)

IT **Fluorescent** brighteners
(nonionic, for anionically modified polyester fibers, lightfastness and whitening in relation to)

IT Polyester fibers, uses and miscellaneous
RL: USES (Uses)
(sulfoisophthalate group-contg., **fluorescent** brightening of, cationic and disperse brighteners for, lightfastness of)

IT 58449-88-0, C.I. **Fluorescent** Brightener 199
RL: USES (Uses)
(anionically modified polyester fibers treated with, whiteness of)

IT 119314-22-6, C.I. **Fluorescent** Brightener 386
RL: USES (Uses)
(instability of, in presence of anionically modified polyester fibers)

IT 61951-71-1, C.I. **Fluorescent** Brightener 257 95078-19-6, C.I. **Fluorescent** Brightener 363 119314-19-1, C.I. **Fluorescent** Brightener 365 119314-20-4, C.I. **Fluorescent** Brightener 373 119314-21-5, C.I. **Fluorescent** Brightener 381
RL: USES (Uses)
(lightfastness of, on anionically modified polyester fibers and polyacrylonitrile fibers)

IT 12224-35-0, C.I. **Fluorescent** Brightener 179 119314-48-6, Hostalux ERC 119314-49-7, Hostalux ETB 119314-50-0, Hostalux ETR
RL: USES (Uses)
(lightfastness of, on anionically modified polyester fibers and unmodified polyester fibers)

IT 119314-22-6, C.I. **Fluorescent** Brightener 386
RL: USES (Uses)
(instability of, in presence of anionically modified polyester fibers)

RN 119314-22-6 CAPLUS

L10 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1988:77136 CAPLUS

DN 108:77136

TI Pyrazoline **fluorescent** brighteners

PA Ciba-Geigy A.-G., Switz.

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

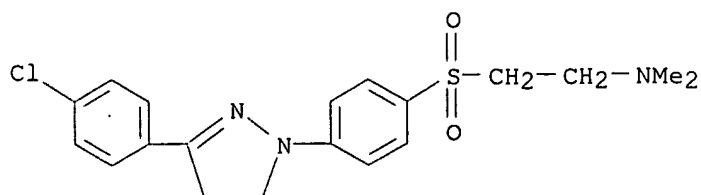
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62132865	A2	19870616	JP 1986-287861	19861204 <--
	JP 06025130	B4	19940406		
	EP 234176	A1	19870902	EP 1986-810548	19861128 <--
	EP 234176	B1	19910515		
	EP 234176	B2	19960522		
	R: CH, DE, ES, FR, GB, IT, LI				
	US 4816590	A	19890328	US 1986-935911	19861128 <--
	ES 2039207	T3	19930916	ES 1986-810548	19861128 <--
	BR 8605955	A	19870915	BR 1986-5955	19861204 <--
	US 5308545	A	19940503	US 1992-983343	19921130 <--
PRAI	CH 1985-5163		19851204		
	CH 1986-1770		19860430		
	US 1986-935911		19861128		
	US 1988-282537		19881212		
	US 1990-630710		19901220		
	US 1992-825675		19920127		
TI	Pyrazoline fluorescent brighteners				
PI	JP 62132865	A2	19870616	Showa	

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62132865	A2	19870616	JP 1986-287861	19861204 <--
	JP 06025130	B4	19940406		
	EP 234176	A1	19870902	EP 1986-810548	19861128 <--
	EP 234176	B1	19910515		
	EP 234176	B2	19960522		
	R: CH, DE, ES, FR, GB, IT, LI				
	US 4816590	A	19890328	US 1986-935911	19861128 <--
	ES 2039207	T3	19930916	ES 1986-810548	19861128 <--
	BR 8605955	A	19870915	BR 1986-5955	19861204 <--
	US 5308545	A	19940503	US 1992-983343	19921130 <--
ST	pyrazoline fluorescent brightener acrylic fiber; acetate fiber pyrazoline fluorescent brightener; polyamide fiber pyrazoline fluorescent brightener				
IT	Acetate fibers, uses and miscellaneous Acrylic fibers, uses and miscellaneous Polyamide fibers, uses and miscellaneous RL: USES (Uses) (fluorescent brighteners for, pyrazoline compds. as)				
IT	Fluorescent brighteners (pyrazoline derivs., for synthetic fibers)				
IT	Quaternary ammonium compounds, uses and miscellaneous RL: USES (Uses) (pyrazoline-based, fluorescent brighteners, for synthetic fibers)				
IT	9004-35-7 RL: USES (Uses) (acetate fibers, fluorescent brighteners for, pyrazoline compds. as)				
IT	10357-99-0 10358-02-8 10358-02-8D, salts 13221-36-8D, salts 106359-93-7 112826-18-3 112826-19-4 112826-21-8 112826-23-0 112826-24-1 112826-24-1D, salts 112826-25-2 112826-26-3 RL: USES (Uses) (fluorescent brighteners, for synthetic fibers)				
IT	112826-16-1P RL: PREP (Preparation) (manuf. and conversion to hydrazine derivs.)				
IT	109-83-1, 2-(Methylamino)ethanol 112826-15-0 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with (vinylsulfonylphenyl)pyrazoline derivs.)				
IT	112826-14-9 112826-17-2 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with chlorobenzoyl chloride deriv.)				
IT	10357-99-0 RL: USES (Uses) (fluorescent brighteners, for synthetic fibers)				
RN	10357-99-0 CAPLUS				
CN	Ethanamine, 2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)				



L10 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1987:98993 CAPLUS

DN 106:98993

TI **Fluorescent** 4-amino-3,6-disulfonatonaphthalimide derivatives and their use in fluorescence-polarization immunoassays

IN Cittanova, Nicole; Desfosses, Bernard; Christeff, Nicolas; Rajkowski, Krzysztof

PA Centre National de la Recherche Scientifique, Fr.

SO Fr. Demande, 21 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2574184	A1	19860606	FR 1984-18311	19841130 <--
	FR 2574184	B1	19880422		
	EP 187076	A1	19860709	EP 1985-402360	19851129 <--
	EP 187076	B1	19910918		

R: DE, FR, GB, NL

PRAI FR 1984-18311 19841130

TI **Fluorescent** 4-amino-3,6-disulfonatonaphthalimide derivatives and their use in fluorescence-polarization immunoassays

PI FR 2574184 A1 **19860606**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2574184	A1	19860606	FR 1984-18311	19841130 <--
	FR 2574184	B1	19880422		
	EP 187076	A1	19860709	EP 1985-402360	19851129 <--
	EP 187076	B1	19910918		

R: DE, FR, GB, NL

AB . . . mol. I (M+ = cation, esp. Li+; R = a group derived from a hapten or antigen) is a stable **fluorescent label** for use in title assays. The hapten or antigen may be attached through -NHCONHNH2 (II) or m-vinylsulfonylphenyl directly, or also through 1,7-diaminoheptane or cysteamine. Testosterone was **labeled** with 4-amino-N-(hydrazinocarbonylamino)-3,6-naphthalimide Li disulfonate. The **fluorescent** product was purified by TLC on silica gel and HPLC and used in a fluorescence-polarization immunoassay (incident light .apprx.425 nm; . . .

IT Antigens

Haptens

RL: ANST (Analytical study)

(aminodisulfonatonaphthalimide derivs. **labeling** of, for fluorescence polarization immunoassay)

IT Immunochemical analysis

(fluorescence-polarization immunoassay, aminodisulfonatonaphthalimide derivs. as **labels** in, for haptens and antigens detn.)

IT 37654-41-4

RL: ANST (Analytical study)

(aminodisulfonatonaphthalimide deriv. **labeling** of, for fluorescence polarization immunoassay)

IT 107014-62-0D, derivs., salts

RL: ANST (Analytical study)

(antigen and hapten **labeling** by, for fluorescence polarization immunoassay)

IT 60-23-1, Cysteamine 646-19-5, 1,7-Diaminoheptane

RL: MOA (Modifier or additive use); USES (Uses)

(crosslinking agent, in hapten and antigen **labeling** by aminodisulfonatonaphthalimide derivs. for fluorescence polarization immunoassay)

IT 50-27-1, Estriol 58-22-0, Testosterone
 RL: ANT (Analyte); ANST (Analytical study)
 (detn. of, by fluorescence polarization immunoassay,
 aminodisulfonatonaphthalimide derivs. as **labels** for)

IT 59837-00-2D, salts 107014-63-1D, salts 107014-64-2D, salts
 RL: ANST (Analytical study)
 (**fluorescent** reagent for **labeling** haptens and
 antigens for fluorescence polarization immunoassay)

IT 10190-93-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and **labeling** with aminodisulfonatonaphthalimide
 deriv. for fluorescence polarization immunoassay)

IT 75585-79-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and **labeling** with aminodisulfonatonaphthalimide
 deriv., for fluorescence polarization immunoassay)

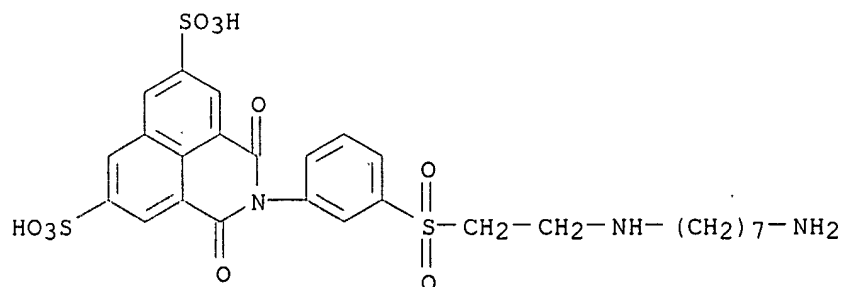
IT **107014-68-6P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and reaction with testosterone deriv.)

IT 106886-84-4P 107014-65-3P **107014-67-5P** 107039-43-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, for fluorescence polarization immunoassay)

IT **107014-68-6P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and reaction with testosterone deriv.)

RN 107014-68-6 CAPLUS

CN 1H-Benz[de]isoquinoline-5,8-disulfonic acid, 2-[3-[[2-[(7-
 aminoheptyl)amino]ethyl)sulfonyl]phenyl]-2,3-dihydro-1,3-dioxo- (9CI) (CA
 INDEX NAME)



L10 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1987:96274 CAPLUS

DN 106:96274

TI The use of disulfonatonaphthalimide **fluorescent** dyes for the
 fluorescence polarization immunoassay of steroids

AU Desfosses, B.; Urios, P.; Christeff, N.; Rajkowski, K. M.; Cittanova, N.

CS Fac. Med., Paris, F-75270, Fr.

SO Analytical Biochemistry (1986), 159(1), 179-86
 CODEN: ANBCA2; ISSN: 0003-2697

DT Journal

LA English

TI The use of disulfonatonaphthalimide **fluorescent** dyes for the
 fluorescence polarization immunoassay of steroids

SO Analytical Biochemistry (1986), 159(1), 179-86
 CODEN: ANBCA2; ISSN: 0003-2697

AB A series of **fluorescent** disulfonatonaphthalimide derivs. of

testosterone [58-22-0] and estriol [50-27-1] were synthesized and their **fluorescent** properties investigated. The fluorescence lifetimes of these derivs. were higher than that of the unreacted **fluorescent** dye, whereas the quantum yields were of the same order. The compds. were therefore compared in terms of their utilizability. . . compd. is discussed in terms of the position, type, and length of the chem. bridge linking the steroid to the **fluorescent** dye. It is proposed that these **fluorescent labels** are highly appropriate to this type of immunoassay.

IT 106867-21-4P 106867-22-5P 106886-84-4P **106906-73-4P**
107014-65-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and **fluorescent** properties of, for polarization immunoassay)

IT **106906-73-4P**

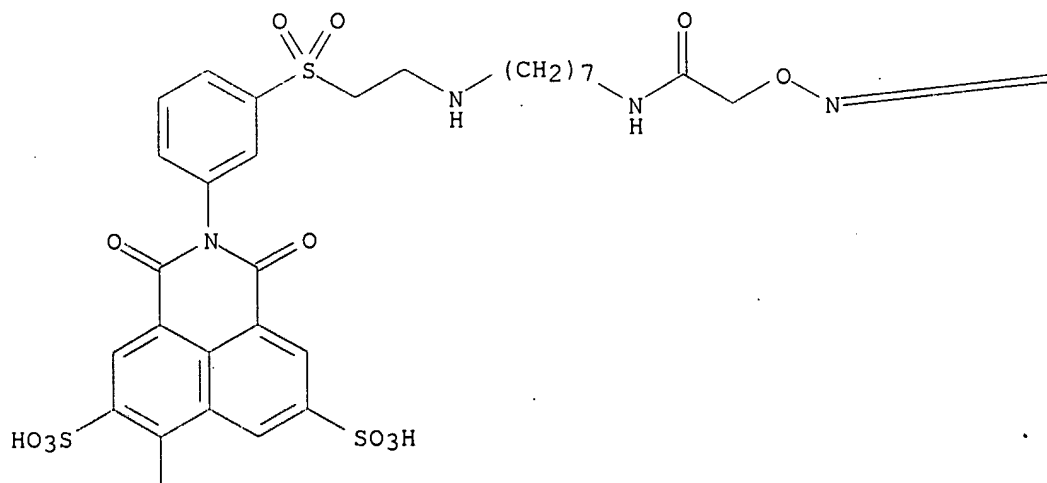
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and **fluorescent** properties of, for polarization immunoassay)

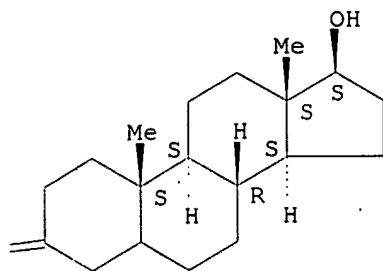
RN 106906-73-4 CAPLUS

CN 1H-Benz[de]isoquinoline-5,8-disulfonic acid, 6-amino-2,3-dihydro-2-[3-[[2-[[7-[[[[[(17.beta.)-17-hydroxyandrostane-3-ylidene]amino]oxy]acetyl]amino]heptyl]amino]ethyl]sulfonyl]phenyl]-1,3-dioxo-, dilithium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A





NH₂

● 2 Li

L10 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1985:203335 CAPLUS

DN 102:203335

TI Aminyl oxides (nitroxides). XXXVII. Formation and ESR spectroscopic study of vinylaminyl oxides with electron-acceptor substituents and of related radicals

AU Aurich, Hans Guenter; Schmidt, Michael; Schwerzel, Thomas

CS Fachbereich Chem., Univ. Marburg, Marburg/Lahn, D-3550, Fed. Rep. Ger.

SO Chemische Berichte (1985), 118(3), 1086-104

CODEN: CHBEAM; ISSN: 0009-2940

DT Journal

LA German

OS CASREACT 102:203335

SO Chemische Berichte (1985), 118(3), 1086-104

CODEN: CHBEAM; ISSN: 0009-2940

IT 40936-13-8P 55990-96-0P 71569-27-2P 71602-19-2P 72425-00-4P

92447-54-6P 92447-55-7P 96406-26-7P **96406-27-8P**

96406-28-9P 96406-29-0P 96406-30-3P 96406-31-4P 96406-32-5P

96406-33-6P 96406-34-7P 96422-93-4P 96422-94-5P 96422-95-6P

96422-96-7P 96422-97-8P 96422-98-9P 96422-99-0P 96423-00-6P

96423-01-7P 96423-02-8P 96423-03-9P 96423-04-0P 96423-05-1P

96423-06-2P 96423-07-3P 96423-08-4P 96423-09-5P 96423-10-8P

96423-11-9P 96423-12-0P 96423-13-1P 96423-14-2P 96423-15-3P

96423-16-4P 96423-17-5P **96423-18-6P** 96423-19-7P

96423-20-0P 96423-21-1P 96423-22-2P 96423-23-3P 96423-24-4P

96423-25-5P 96423-26-6P 96423-27-7P 96423-28-8P 96423-29-9P

96423-30-2P 96423-31-3P 96423-32-4P 96423-33-5P 96423-34-6P

96423-35-7P

RL: PRP (Properties); FORM (Formation, nonpreparative); PREP (Preparation)
(generation and ESR of)

IT 52266-40-7P 95503-43-8P 96406-09-6P 96406-12-1P 96406-13-2P

96406-35-8P 96406-36-9P 96406-38-1P 96406-39-2P

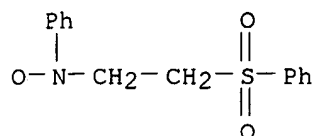
96406-40-5P 96406-41-6P 96406-42-7P 96406-43-8P 96406-44-9P

96406-45-0P 96406-46-1P 96406-47-2P 96406-48-3P 96406-49-4P

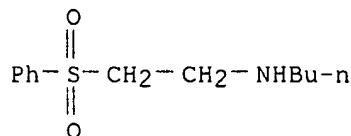
96406-50-7P 96406-51-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. and oxidn. of)
 IT 98-09-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with N-labeled hydroxylamine)
 IT 96406-27-8P
 RL: PRP (Properties); FORM (Formation, nonpreparative); PREP (Preparation)
 (generation and ESR of)
 RN 96406-27-8 CAPLUS
 CN Nitroxide, phenyl 2-(phenylsulfonyl)ethyl (9CI) (CA INDEX NAME)



L10 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS
 AN 1985:148457 CAPLUS
 DN 102:148457
 TI **Fluorescent** and nonfluorescent aryl vinyl sulfones - reagents
 suitable for protection and detection of thiol functions
 AU Horner, Leopold; Lindel, Hans
 CS Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Fed. Rep. Ger.
 SO Liebigs Annalen der Chemie (1985), (1), 22-33
 CODEN: LACHDL; ISSN: 0170-2041
 DT Journal
 LA German
 OS CASREACT 102:148457
 TI **Fluorescent** and nonfluorescent aryl vinyl sulfones - reagents
 suitable for protection and detection of thiol functions
 SO Liebigs Annalen der Chemie (1985), (1), 22-33
 CODEN: LACHDL; ISSN: 0170-2041
 AB . . . of different (arylsulfonyl)ethyl protective groups in the same
 mol. is possible by using different kinetic steering factors. Application
 of the **fluorescent** vinyl sulfones I (R = 4-C6H4CO2Et) and II (R
 = NMe2, OMe) opens new fields for anal. and synthesis. SH-selective.
 ST thiol addn vinyl sulfone kinetics; protection thiol vinyl sulfone;
fluorescent vinyl sulfone addn thiol; orthogonal protective group
 vinyl sulfone
 IT 95535-42-5P 95535-45-8P 95535-46-9P 95535-47-0P **95535-48-1P**
 95535-49-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT **95535-48-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 95535-48-1 CAPLUS
 CN 1-Butanamine, N-[2-(phenylsulfonyl)ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1978:512429 CAPLUS

DN 89:112429

TI 1-[4'-(.beta.-Acylaminoethylsulfonyl)phenyl]-3-aryl-.DELTA.2-pyrazolines
useful as **fluorescent** whiteners

IN Schinzel, Erich; Bildstein, Sigfried; Lebkuecher, Karl Heinz

PA Hoechst A.-G., Fed. Rep. Ger.

SO Ger., 8 pp.

CODEN: GWXXAW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1670722	A	19720309	DE 1966-F49805	19660728 <--
	DE 1670722	B2	19780503		
	NL 6710135	A	19680129	NL 1967-10135	19670721 <--
	GB 1180793	A	19700211	GB 1967-1180793	19670726 <--
	AT 282535	B	19700625	AT 1967-6957	19670726 <--
	CH 501700	A	19710115	CH 1967-501700	19670726 <--
	CH 6710623	A4	19710215	CH 1967-1062367	19670726 <--
	CH 508770	A	19710615	CH 1967-508770	19670726 <--
	DK 128280	B	19740401	DK 1967-3881	19670727 <--
	BE 701986	A	19680129	BE 1967-701986	19670728 <--
	NL 143566	B	19741015	NL 1970-19008	19701230 <--
PRAI	DE 1966-F49805		19660728		
	NL 1967-10135		19670721		

TI 1-[4'-(.beta.-Acylaminoethylsulfonyl)phenyl]-3-aryl-.DELTA.2-pyrazolines
useful as **fluorescent** whiteners

PI DE 1670722 19780503

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1670722	A	19720309	DE 1966-F49805	19660728 <--
	DE 1670722	B2	19780503		
	NL 6710135	A	19680129	NL 1967-10135	19670721 <--
	GB 1180793	A	19700211	GB 1967-1180793	19670726 <--
	AT 282535	B	19700625	AT 1967-6957	19670726 <--
	CH 501700	A	19710115	CH 1967-501700	19670726 <--
	CH 6710623	A4	19710215	CH 1967-1062367	19670726 <--
	CH 508770	A	19710615	CH 1967-508770	19670726 <--
	DK 128280	B	19740401	DK 1967-3881	19670727 <--
	BE 701986	A	19680129	BE 1967-701986	19670728 <--
	NL 143566	B	19741015	NL 1970-19008	19701230 <--

AB **Fluorescent** whiteners (I; R = H, Cl; R1 = H, Cl-18 alkyl,
substituted Ph or benzyl; R2 = optionally substituted lower. . . was
heated to a melt to give I (R = Cl, R1 = H, R2 = Me, Z = CO) [24032-65-3].

ST acetate fiber **fluorescent** brightener; acrylic fiber
fluorescent brightener; polyamide fiber **fluorescent**
brightener; wool fiber **fluorescent** brightener;
acylaminoethylsulfonylphenylpyrazoline **fluorescent** brightener;
pyrazoline **fluorescent** brightener; phenylpyrazoline
fluorescent brightener

IT **Fluorescent** brighteners

([[[(acylamino)ethyl]sulfonyl]phenyl]phenylpyrazolines, for natural and
synthetic fibers and PVC)

IT Acetate fibers, uses and miscellaneous

Acrylic fibers, uses and miscellaneous

Polyamide fibers, uses and miscellaneous

RL: USES (Uses)

(**fluorescent** brighteners for, [[[(acylamino)ethyl]sulfonyl]ph
enyl]phenylpyrazolines as)

IT 24032-64-2P 24032-65-3P 24032-66-4P
 24032-67-5P 24032-69-7P 24032-70-0P
 24032-71-1P 24032-72-2P 24032-73-3P
 24032-75-5P 24032-76-6P 24032-77-7P
 24032-78-8P 24032-79-9P 24032-80-2P
 24032-81-3P 24032-82-4P 24033-78-1P
 24033-79-2P 24067-87-6P 24100-43-4P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (fluorescent brightener, manuf. of)

IT 24032-68-6P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (fluorescent brightener, prepn. of)

IT 9002-86-2
 RL: USES (Uses)
 (fluorescent brighteners for, pyrazoline derivs. as)

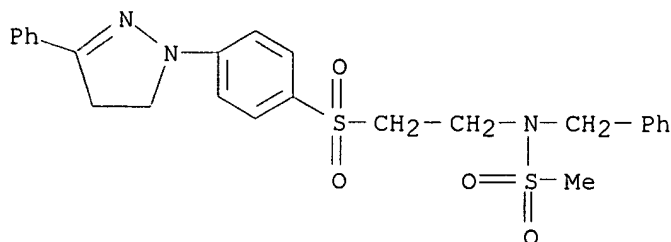
IT 22987-12-8P 24033-77-0P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of, as fluorescent brightener)

IT 10358-08-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with methoxybenzoyl chloride)

IT 24032-64-2P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (fluorescent brightener, manuf. of)

RN 24032-64-2 CAPLUS

CN Methanesulfonamide, N-[2-[[4-(4,5-dihydro-3-phenyl-1H-pyrazol-1-yl)phenyl]sulfonyl]ethyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1977:569241 CAPLUS

DN 87:169241

TI Determination of the vapor pressure of **fluorescent** whitening agents. Part 2

AU Eibl, Johannes; Medilek, Peter; Kleemann, Rita

CS Gesamthochsch. Wuppertal, Wuppertal, Fed. Rep. Ger.

SO Melliand Textilberichte International (1977), 58(10), 850-1
 CODEN: MTXIAW; ISSN: 0375-9350

DT Journal

LA German

TI Determination of the vapor pressure of **fluorescent** whitening agents. Part 2

SO Melliand Textilberichte International (1977), 58(10), 850-1
 CODEN: MTXIAW; ISSN: 0375-9350

AB The vapor pressure detn. of 2 model **fluorescent** whiteners is described and their use in a vacuum transfer printing process is described.

ST vapor pressure **fluorescent** whitener; transfer printing vacuum **fluorescent** whitener

IT Vapor pressure

(of fluorescent brighteners)

IT **Fluorescent brighteners**
(vapor pressure of, vacuum transfer printing in relation to)

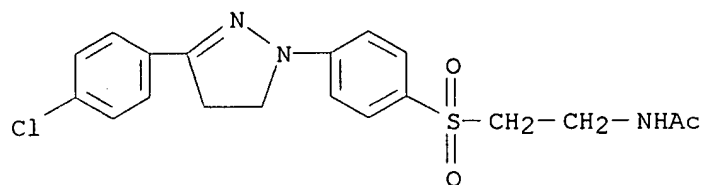
IT Textile printing
(transfer, vacuum, with **fluorescent** brighteners, vapor pressure in relation to)

IT 2744-49-2 **24032-65-3**
RL: PROC (Process)
(vapor pressure detn. of)

IT **24032-65-3**
RL: PROC (Process)
(vapor pressure detn. of)

RN 24032-65-3 CAPLUS

CN Acetamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1972:421588 CAPLUS

DN 77:21588

TI 1,5-Diaryl-3-styryl-.DELTA.2-pyrazolines as **fluorescent** whiteners

PA Farbwerke Hoechst A.-G.

SO Brit., 11 pp.
CODEN: BRXXAA

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 1264671		19720223		<--
PRAI	DD 1968-5801		19680419		

TI 1,5-Diaryl-3-styryl-.DELTA.2-pyrazolines as **fluorescent** whiteners

PI	GB 1264671	19720223			<--
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

ST polyacrylonitrile **fluorescent** whitener; cellulose triacetate **fluorescent** whitener; nylon **fluorescent** whitener; sulfone **fluorescent** whitener; styrylpyrazoline **fluorescent** whitener; pyrazolines **fluorescent** whitener; vinylsulfonylpyrazolines deriv

IT **Fluorescent** brighteners
([(alkylsulfonyl)phenyl]phenylstyrylpyrazoline derivs., for synthetic fibers)

IT Acetate fibers

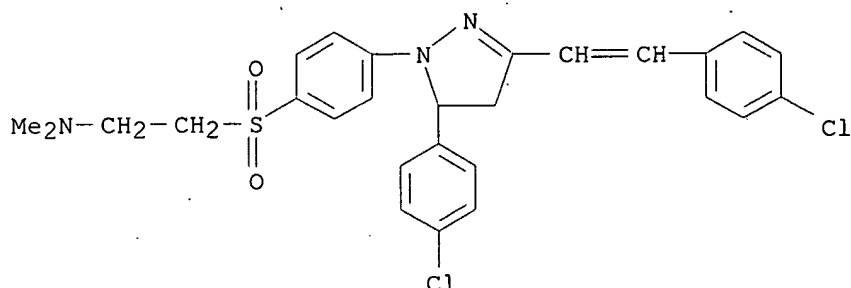
Acrylic fibers

Polyamide fibers

RL: USES (Uses)

(**fluorescent** brighteners for, [(alkylsulfonyl)phenyl]phenylstyrylpyrazoline derivs. as)

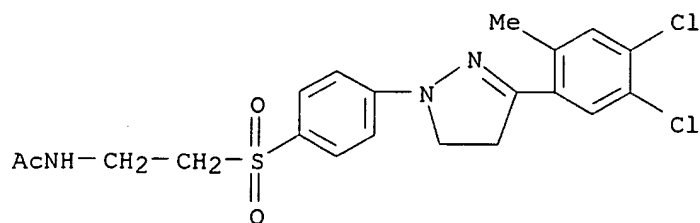
IT 26505-13-5P 27326-33-6P 29244-84-6P 29244-85-7P
 29244-86-8P 29244-87-9P 29244-88-0P 29244-89-1P
 29244-90-4P 29244-91-5P 29244-92-6P
 29244-93-7P 29244-95-9P 29244-96-0P 29244-97-1P
 29244-98-2P 29244-99-3P 29245-00-9P 29737-01-7P 29737-02-8P
 29979-73-5P 31527-51-2P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)
 IT 29244-84-6P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)
 RN 29244-84-6 CAPLUS
 CN Ethanamine, 2-[[4-[5-(4-chlorophenyl)-3-[2-(4-chlorophenyl)ethenyl]-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



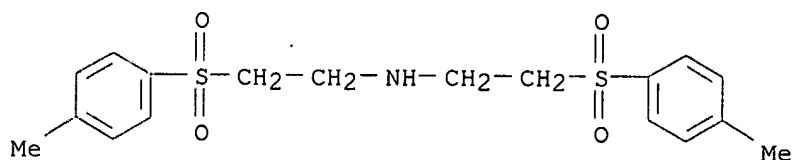
L10 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS
 AN 1972:87172 CAPLUS
 DN 76:87172
 TI 1-[p-(Alkylsulfonyl)phenyl]-3-(6-alkyl-3,4-dichlorophenyl)-2-pyrazoline
 fluorescent whitening agents
 IN Mengler, Helmut; Schinzel, Erich; Roesch, Guenter
 PA Farbwerke Hoechst A.-G.
 SO Ger. Offen., 24 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2011552	A	19711014	DE 1970-2011552	19700311 <--
	DE 2011552	B2	19790523		
	NL 7102967	A	19710914	NL 1971-2967	19710305 <--
	NL 163212	B	19800317		
	NL 163212	C	19800815		
	ES 388953	A1	19750316	ES 1971-388953	19710305 <--
	ZA 7101514	A	19720426	ZA 1971-1514	19710308 <--
	AT 315803	B	19740610	AT 1971-2020	19710309 <--
	CH 713437	A4	19740715	CH 1971-3437	19710309 <--
	CH 559273	B	19750228		
	CH 569755	A	19751128	CH 1974-10516	19710309 <--
	JP 56032313	B4	19810727	JP 1971-12242	19710309 <--
	NO 131596	B	19750317	NO 1971-910	19710310 <--
	CA 971959	A1	19750729	CA 1971-107343	19710310 <--
	SE 378105	B	19750818	SE 1971-3040	19710310 <--
	BE 764127	A1	19710913	BE 1971-100796	19710311 <--
	FR 2084476	A5	19711217	FR 1971-8465	19710311 <--
	HU 162981	P	19730528	HU 1971-H01356	19710311 <--

	CS 152391	P	19731219	CS 1971-1790	19710311 <--
	SU 439991	D	19740815	SU 1971-1629402	19710311 <--
	PL 83038	P	19751231	PL 1971-146795	19710311 <--
	RO 61307	P	19760915	RO 1971-66231	19710311 <--
	GB 1360490	A	19740717	GB 1971-23815	19710419 <--
	JP 56138173	A2	19811028	JP 1981-28523	19810302 <--
	JP 59001750	B4	19840113		
PRAI	DE 1970-2011552		19700311		
PI	DE 2011552	19711014			
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2011552	A	19711014	DE 1970-2011552	19700311 <--
	DE 2011552	B2	19790523		
	NL 7102967	A	19710914	NL 1971-2967	19710305 <--
	NL 163212	B	19800317		
	NL 163212	C	19800815		
	ES 388953	A1	19750316	ES 1971-388953	19710305 <--
	ZA 7101514	A	19720426	ZA 1971-1514	19710308 <--
	AT 315803	B	19740610	AT 1971-2020	19710309 <--
	CH 713437	A4	19740715	CH 1971-3437	19710309 <--
	CH 559273	B	19750228		
	CH 569755	A	19751128	CH 1974-10516	19710309 <--
	JP 56032313	B4	19810727	JP 1971-12242	19710309 <--
	NO 131596	B	19750317	NO 1971-910	19710310 <--
	CA 971959	A1	19750729	CA 1971-107343	19710310 <--
	SE 378105	B	19750818	SE 1971-3040	19710310 <--
	BE 764127	A1	19710913	BE 1971-100796	19710311 <--
	FR 2084476	A5	19711217	FR 1971-8465	19710311 <--
	HU 162981	P	19730528	HU 1971-HO1356	19710311 <--
	CS 152391	P	19731219	CS 1971-1790	19710311 <--
	SU 439991	D	19740815	SU 1971-1629402	19710311 <--
	PL 83038	P	19751231	PL 1971-146795	19710311 <--
	RO 61307	P	19760915	RO 1971-66231	19710311 <--
	GB 1360490	A	19740717	GB 1971-23815	19710419 <--
	JP 56138173	A2	19811028	JP 1981-28523	19810302 <--
	JP 59001750	B4	19840113		
AB	. . . = OSO3Na, OAc, OCHMeCH2NMe2, OCH2CH2NMe2, NHAc, NMeAc, OEt, OBU)				
	were prepd. from I (R1 = CH2CH2OH). I were used as fluorescent				
	whiteners for nylon 6, polyacrylonitrile or 1:1 nylon 66-polyurethane				
	textiles. Thus, 3,4,6-Cl2MeC6H2COCH2CH2Cl, prepd. from 3,4-Cl2C6H3Me and				
	ClCOCH2CH2Cl in the presence. . .				
ST	pyrazoline fluorescent whitener; nylon fluorescent				
	whitener; polyacrylonitrile fluorescent whitener				
IT	Fluorescent brighteners				
	((dichlorophenyl)phenylpyrazoline derivs., for synthetic fibers)				
IT	Acrylic fibers				
	Polyamide fibers				
	Spandex fibers				
	RL: USES (Uses)				
	(fluorescent brighteners for, (dichlorophenyl)phenylpyrazolin				
	e derivs.)				
IT	35441-12-4P	35441-13-5P	35441-14-6P	35441-15-7P	35441-16-8P
	35441-17-9P	35441-18-0P	35441-19-1P	35441-20-4P	
	35441-21-5P	35441-22-6P	35441-23-7P	35441-24-8P	35507-85-8P
	RL: IMF (Industrial manufacture); PREP (Preparation)				
	(prepn. of)				
IT	35441-19-1P				
	RL: IMF (Industrial manufacture); PREP (Preparation)				
	(prepn. of)				
RN	35441-19-1 CAPLUS				
CN	Acetamide, N-[2-[[4-[3-(4,5-dichloro-2-methylphenyl)-4,5-dihydro-1H-				
	pyrazol-1-yl]phenyl]sulfonyl]ethyl]- (9CI) (CA INDEX NAME)				



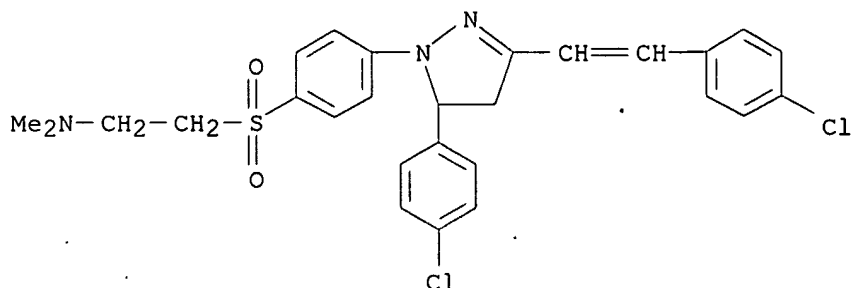
L10 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2003 ACS
 AN 1972:87030 CAPLUS
 DN 76:87030
 TI Reaction between reactive dyes and urea during dyeing of wool
 AU Swanepoel, O. A.
 CS Counc. Sci., Ind. Res., S. Afr. Wool Text. Res. Inst., Port Elizabeth, S. Afr.
 SO Applied Polymer Symposia (1971), No. 18(Pt. 1), 473-83
 CODEN: APPSBX; ISSN: 0570-4898
 DT Journal
 LA English
 SO Applied Polymer Symposia (1971), No. 18(Pt. 1), 473-83
 CODEN: APPSBX; ISSN: 0570-4898
 AB Isolation and identification of several derivs. [e.g., N,N'-bis[2-(p-tolylsulfonyl)ethyl]urea [34087-15-5] and N-p-tolyl-3-ureidopropionamide [34087-16-6]] formed by the reaction of urea [57-13-6] with model compds. show that covalent bonds can be formed between urea and the typical reactive groups in fiber-reactive dyes. Reaction of com. fiber-reactive dyes with solns. contg. **14C-labeled** urea lead, in some cases (e.g., Remazolan Golden Yellow G, Premazin Red P 3B) to the formation of radioactive dye. . .
 IT 5663-01-4P **35777-35-6P** 35942-70-2P
 RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (formation of, in urea reaction with model compds. for reactive dyes)
 IT **34087-15-5P** 34087-16-6P
 RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (formation of, in urea reaction with reactive dyes)
 IT **35777-35-6P**
 RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (formation of, in urea reaction with model compds. for reactive dyes)
 RN 35777-35-6 CAPLUS
 CN Ethanamine, 2-[(4-methylphenyl)sulfonyl]-N-[2-[(4-methylphenyl)sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2003 ACS
 AN 1971:100614 CAPLUS
 DN 74:100614
 TI 1-(Alkylsulfonylphenyl)-5-phenyl-3-styryl-2-pyrazolines as **fluorescent** whitening agents

IN Mengler, Helmut; Roesch, Guenter; Schinzel, Erich; Smerz, Otto
 PA Farbwerke Hoechst A.-G.
 SO Ger. Offen., 25 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1923702	A	19701119	DE 1969-1923702	19690509 <--
PRAI	DE 1969-1923702		19690509		
TI	1-(Alkylsulfonylphenyl)-5-phenyl-3-styryl-2-pyrazolines as fluorescent whitening agents				
PI	DE 1923702		19701119		
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1923702	A	19701119	DE 1969-1923702	19690509 <--
AB	. . . CH ₂ CH ₂ OH), dehydration to I (R ₁ = CH:-CH ₂), and addn. of active H compds. Mixts. of I and IV, used as fluorescent whitening agents for polyamide, polyacrylonitrile, and cellulose textiles, were more effective than the single compds. Thus, refluxing II (R = . . .				
ST	sulfonylphenyl styryl pyrazolines; fluorescent whitening agents styrylpyrazolines				
IT	Fiber, acrylic, uses and miscellaneous RL: USES (Uses) (fluorescent brightening agents for, phenylstyryl[(alkylsulfonyl)phenyl]pyrazoline derivs. as)				
IT	Nylon, uses and miscellaneous RL: USES (Uses) (fluorescent brightening agents for, phenylstyryl[alkyl(sulfonyl)phenyl]pyrazoline derivs. as)				
IT	Fluorescent brightening agents (phenylstyryl[(alkylsulfonyl)phenyl]pyrazoline derivs., for synthetic fibers)				
IT	26505-13-5P	27326-33-6P	29244-84-6P	29244-85-7P	
	29244-86-8P	29244-87-9P	29244-88-0P	29244-89-1P	
	29244-90-4P	29244-91-5P	29244-92-6P		
	29244-93-7P	29244-95-9P	29244-96-0P	29244-97-1P	
	29244-98-2P	29244-99-3P	29245-00-9P	29737-01-7P	29737-02-8P
	31527-51-2P	31527-53-4P	31527-54-5P	31721-41-2P	
	RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of)				
IT	29244-84-6P RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of)				
RN	29244-84-6 CAPLUS				
CN	Ethanamine, 2-[[4-[5-(4-chlorophenyl)-3-[2-(4-chlorophenyl)ethenyl]-4,5- dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)				



L10 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1970:521565 CAPLUS

DN 73:121565

TI 1-[4'-[.beta.-(Acylamino)ethylsulfonyl]phenyl]-3-aryl-2-pyrazolines,
useful as **fluorescent** whiteners

IN Schinzel, Erich; Bildstein, Siegfried; Lebkucher, Karl H.

PA Farbwerke Hoechst A.-G.

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3522242	A	19700728	US 1967-653323	19670714 <--
PRAI	US 1967-653323		19670714		

TI 1-[4'-[.beta.-(Acylamino)ethylsulfonyl]phenyl]-3-aryl-2-pyrazolines,
useful as **fluorescent** whiteners

PI US 3522242 19700728

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3522242	A	19700728	US 1967-653323	19670714 <--

ST pyrazolines **fluorescent** whiteners

IT **Fluorescent** brightening agents

([[[(acylamino)ethyl]sulfonyl]phenyl]phenylpyrazoline derivs.)

IT Fiber, acetate, uses and miscellaneous

Fiber, acrylic, uses and miscellaneous

RL: USES (Uses)

(**fluorescent** brightening agents for,

[[[(acylamino)ethyl]sulfonyl]phenyl]phenylpyrazoline derivs. as)

IT 22987-12-8P 24032-64-2P 24032-65-3P

24032-66-4P 24032-67-5P 24032-68-6P

24032-69-7P 24032-70-0P 24032-71-1P

24032-72-2P 24032-73-3P 24032-75-5P

24032-76-6P 24032-77-7P 24032-78-8P

24032-79-9P 24032-80-2P 24032-81-3P

24032-82-4P 24033-77-0P 24033-78-1P

24033-79-2P 24067-87-6P 24100-43-4P

RL: IMF (Industrial manufacture); PREP (Preparation)

(prepn. of)

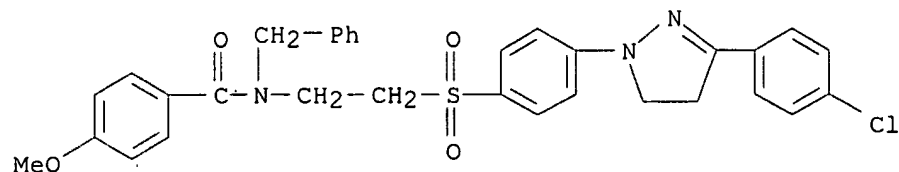
IT 22987-12-8P

RL: IMF (Industrial manufacture); PREP (Preparation)

(prepn. of)

RN 22987-12-8 CAPLUS

CN Benzamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]-4-methoxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1970:510803 CAPLUS

DN 73:110803

TI **Fluorescent** whitening of polyamide or cellulose ester fibers
 PA Farbwerke Hoechst A.-G.
 SO Fr. Demande, 10 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2003125	A1	19691107	FR 1969-5635	19690303 <--
	FR 2003125	B1	19731116		
PRAI	FR 1969-5635		19690303		

TI **Fluorescent** whitening of polyamide or cellulose ester fibers

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2003125	A1	19691107	FR 1969-5635	19690303 <--
	FR 2003125	B1	19731116		

ST polyamides **fluorescent** whitening; cellulose triacetate **fluorescent** whitening; nylon 66 **fluorescent** whitening; **fluorescent** whitening cellulose triacetate polyamides; polyalkylene glycols **fluorescent** whitening; oxyethylated fatty alcs **fluorescent** whitening; fatty alcs oxyethylated **fluorescent** whitening

IT **Fluorescent** brightening agents
 (aromatic heterocyclic nitrogen compds., contg. oxyethylated fatty alc.-polyalkylene glycol compns.)

IT Alcohols, compounds
 RL: USES (Uses)
 (fatty, reaction products with ethylene oxide, fiber **fluorescent** whitening in presence of)

IT Nylon, uses and miscellaneous
 RL: USES (Uses)
 (**fluorescent** whitening of, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

IT Fiber, acetate, uses and miscellaneous
 RL: USES (Uses)
 (triacetate, **fluorescent** whitening of, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

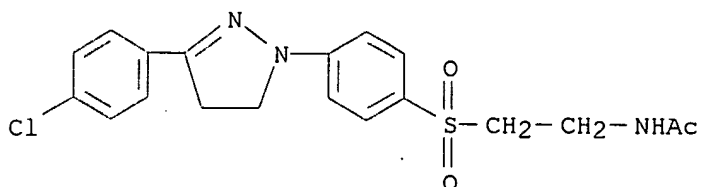
IT 3426-43-5 **24032-65-3** 27441-70-9
 RL: USES (Uses)
 (fiber **fluorescent** whitening by, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

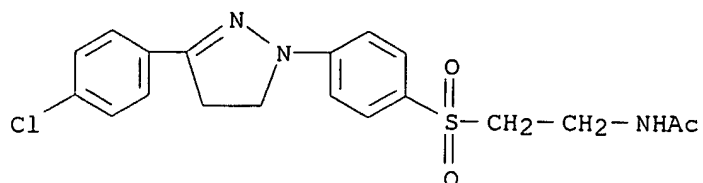
IT 25322-69-4
 RL: USES (Uses)
 (fiber **fluorescent** whitening in presence of)

IT **24032-65-3**
 RL: USES (Uses)
 (fiber **fluorescent** whitening by, in presence of oxyethylated fatty alc.-polyalkylene glycol compns.)

RN 24032-65-3 CAPLUS

CN Acetamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]- (9CI) (CA INDEX NAME)





L10 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1970:478560 CAPLUS

DN 73:78560

TI Styrylpyrazolines as **fluorescent** whitening agents

PA Farbwerke Hoechst A.-G.

SO Fr. Demande, 18 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2006587	A5	19691226	FR 1969-12412	19690421 <--
PRAI	CH 1968-5801	A	19680419		

TI Styrylpyrazolines as **fluorescent** whitening agents

PI FR 2006587 **19691226**

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2006587	A5	19691226	FR 1969-12412	19690421 <--

ST styryl pyrazolines **fluorescent** whiteners; pyrazolines styryl **fluorescent** whiteners; pyrazolines styryl **fluorescent** whiteners

IT **Fluorescent** brightening agents

(([alkylsulfonyl]phenyl]phenylstyrylpyrazoline derivs.)

IT Fiber, acetate, uses and miscellaneous

Fiber, acrylic, uses and miscellaneous

Nylon, uses and miscellaneous

RL: USES (Uses)

(**fluorescent** brightening agents for,

[(alkylsulfonyl]phenyl]phenylstyrylpyrazoline derivs. as)

IT 26505-13-5P 27326-33-6P **29244-84-6P 29244-85-7P**
29244-86-8P 29244-87-9P 29244-88-0P **29244-89-1P**
 29244-90-4P **29244-91-5P 29244-92-6P**
29244-93-7P 29244-95-9P 29244-96-0P 29244-97-1P
 29244-98-2P 29244-99-3P 29245-00-9P 29737-01-7P **29737-02-8P**
 29979-73-5P 31527-51-2P

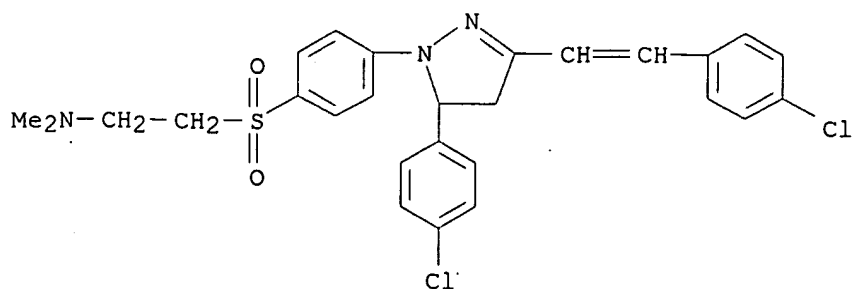
RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)

IT **29244-84-6P**

RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)

RN 29244-84-6 CAPLUS

CN Ethanamine, 2-[[4-[5-(4-chlorophenyl)-3-[2-(4-chlorophenyl)ethenyl]-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L10 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1969:492666 CAPLUS

DN 71:92666

TI Pyrazoline derivatives as whitening agents

PA Farbwerke Hoechst A.-G.

SO Fr., 7 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1535821		19680809		
PRAI	DE		19660728		

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1535821	19680809			

IT **Fluorescent** brightening agents
 (((ethylsulfonyl)phenyl]phenylpyrazoline derivs.)

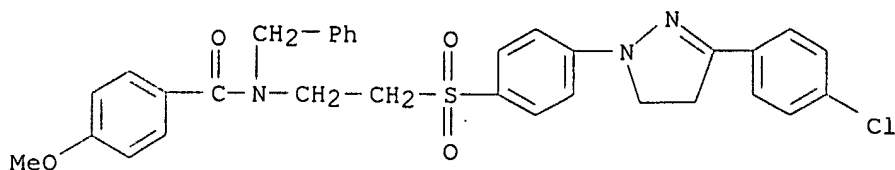
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 24032-66-4P 24032-67-5P 24032-68-6P
 24032-69-7P 24032-70-0P 24032-71-1P
 24032-72-2P 24032-73-3P 24032-75-5P
 24032-76-6P 24032-77-7P 24032-78-8P
 24032-79-9P 24032-80-2P 24032-81-3P
 24032-82-4P 24033-77-0P 24033-78-1P
 24033-79-2P 24067-87-6P 24100-43-4P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)

IT 22987-12-8P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)

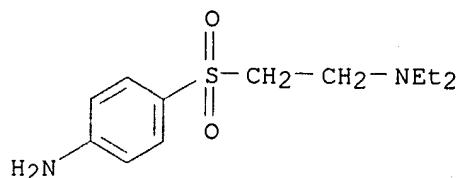
RN 22987-12-8 CAPLUS

CN Benzamide, N-[2-[[4-[3-(4-chlorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]phenyl]sulfonyl]ethyl]-4-methoxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2003 ACS

AN 1953:1275 CAPLUS
 DN 47:1275
 OREF 47:215a-c
 TI The prevention of encephalitis due to the viruses of eastern equine encephalomyelitis and louping-ill. Experiments with trypan red, mepacrine, and many other substances
 AU Hurst, E. Weston; Melvin, P.; Peters, J. M.
 CS Imperial Chem. Inds., Ltd., Manchester, UK
 SO Brit. J. Pharmacol. (1952), 7, 455-72
 DT Journal
 LA Unavailable
 SO Brit. J. Pharmacol. (1952), 7, 455-72
 IT Bleaching agents
 (fluorescent or optical, in encephalitis prevention)
 IT 129-46-4, Bayer 205 140-64-7, Benzamidine, 4,4'-(pentamethylenedioxy)di-, diisethionate 992-59-6, Benzopurpurin 4B 1324-53-4, Carbolan Blue B 3270-78-8, Antrycide 6334-01-6, Aniline, p-(ethylsulfonyl)- 25085-03-4, Acrylamide, polymer with methacrylic acid 25442-63-1, Aniline, p-(2-diethylaminoethylsulfonyl)-
 (in encephalitis prevention)
 IT 25442-63-1, Aniline, p-(2-diethylaminoethylsulfonyl)-
 (in encephalitis prevention)
 RN 25442-63-1 CAPLUS
 CN Benzenamine, 4-[[2-(diethylamino)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)



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 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
127.89	277.89

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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